## YDAC INTERNATIONAL

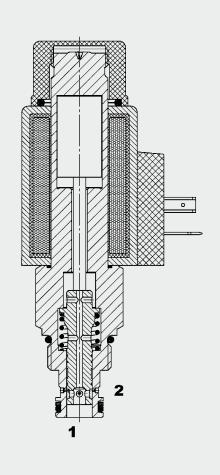
# up to 10 I/min up to 350 bar

## **Proportional** Flow Control Valve **Spool Type, Direct-Acting,** Normally Open Metric Cartridge – 350 bar PWK06020V

#### **FEATURES**

- Stepless adjustment of the effective oil flow, depending on the coil current.
- Excellent stability throughout the entire flow range
- Excellent dynamic performance
- External surfaces zinc-plated and corrosion-proof
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- Coil seals protect the solenoid system
- Wide variety of connectors available
- Low pressure drop due to CFD optimized flow path

#### **FUNCTION**

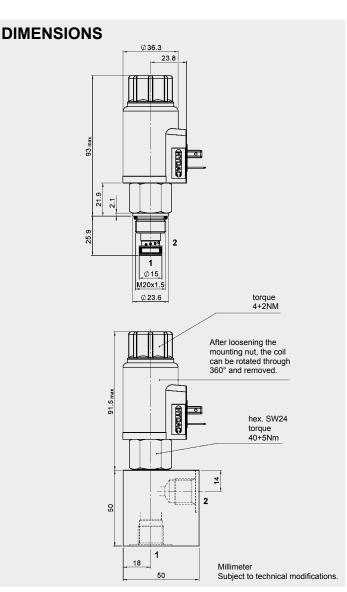


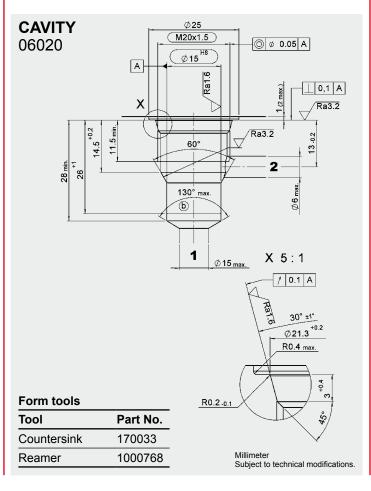
### **SPECIFICATIONS**

Operating pressure:	max. 350 bar		
Nominal flow:	max. 10 l/min		
Internal leakage:	max. 0.9 l/min (at 350 bar / 32 mm²/s)		
Media operating temperature range:	min20 °C to max. +100 °C		
Ambient temperature range:	min20 °C to max. +60 °C		
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2		
Viscosity range:	min. 7.4 mm²/s to max. 420 mm²/s		
Filtration:	Class 19/17/14 according to ISO 4406 or cleaner		
Installation:	No orientation restrictions		
Materials:	Valve body: high tensile steel Spool: hardened and ground steel Seals: NBR (standard)		
<u> </u>	FKM (optional)  Back-up rings: PTFE		
Cavity:	Metric 06020		
Weight:	0.46 kg		
Electronic data:			
Control currents:	1750 mA; 4.1 Ohm (12V) / 850 mA; 17.6 Ohm (24V)		
Dither frequency:	80 - 100 Hz		
Hysteresis with dither:	4 - 6 % of I nom		
Repeatability:	< 1 % of I nom		
Hysteresis:	< 1 % of I nom		
Response sensitivity:	< 1 % of I nom		
Coil type:	Coil P450-1836		

The PWK06020V is a normally closed, direct-acting, spring-loaded, spool type proportional flow control valve.

It is non-compensated and its function is to control the flow from port 1 to port 2 smoothly. The energization of the coil reduces or increases an orifice cross-section and thus controls the flow. Together with a pressure compensator the proportional flow control valve can be used as a 2-way flow regulator - for example when required to lift/lower variable loads at the same velocity.





#### **MODEL CODE** PWK 06020V - 01 M - C - N - 6 - 24 PG Basic model -Proportional flow control valve Function symbol = normally open Type 01 = standard Manual override without manual override No details = M = manual override **Body and ports** С = cartridge only Seals = NBR (standard) = FKM (optional) Flow rate = 6 l/min Other flow rates on request Coil voltage DC: 12 = 12 Volt DC 24 = 24 Volt DC Other voltages on request

#### Standard models

Model code	Part No.
PWK06020V-01-C-N-6-0 –12 PG	3526096
PWK06020V-01-C-N-6-0 –24 PG	3526100

#### Standard in-line bodies

Coil connector types 50-1836

Other connectors on request

DC: PG = DIN connector to EN175301-803 PT = AMP Junior Timer, 2 pole, radial

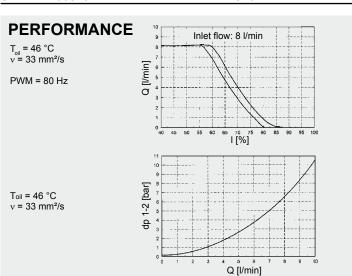
PL = Lead-wires, 457mm long

PN = Deutsch connector, 2 pole

Code	Part No.	Material	Ports	Pressure	
R06020-01X-01	275266	Steel, zinc-plated	G1/4	420 bar	
Other line bodies on request					

#### Seal kits

Code	Part No.	
SEAL KIT 06020-NBR	3119017	
SEAL KIT 06020-FKM	3262477	



#### NOTE

The information in this brochure relates to the operating conditions and applications described. For applications and operating conditions not described, please contact the relevant technical department. Subject to technical modifications.

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